Pulses:

Line numbers available up to 10000.

Mechanical data:

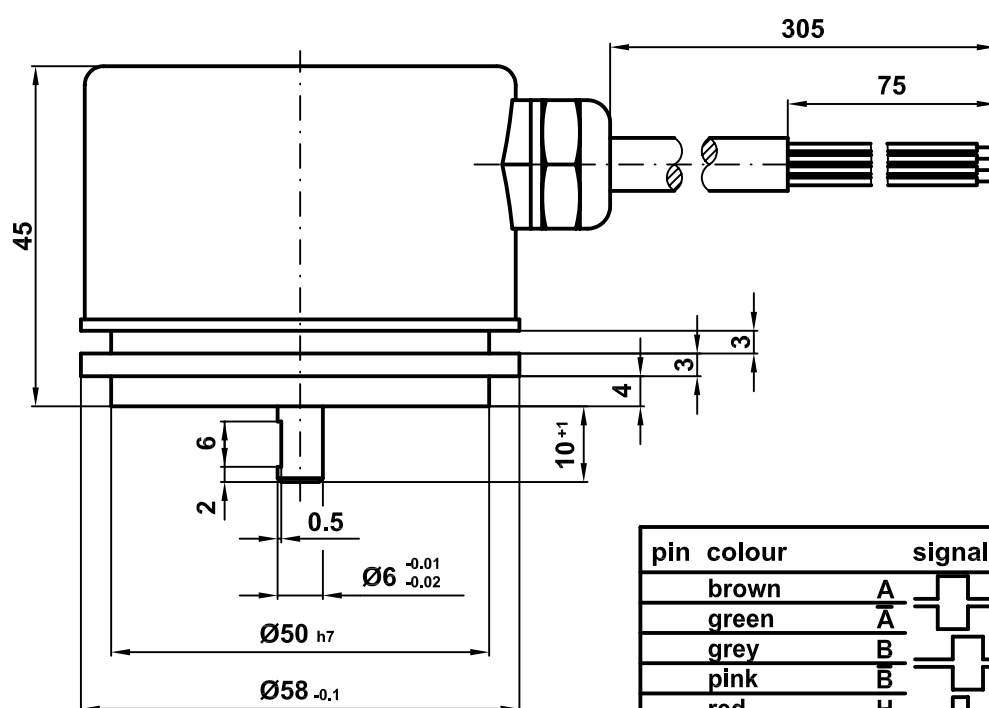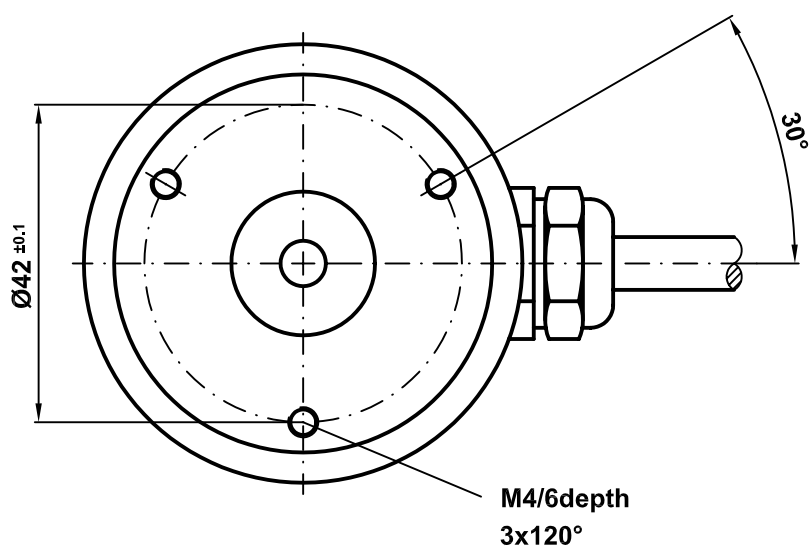|	
Dimensions	see drawings
	minor changes upon request
Housing	aluminium
Shaft	stainless steel
Permissable shaft loads	axial 10N
	radial 20N
Rotating speed	max. 12000 rpm.
Temperature range	0° up to 110°C
Vibration	20g (20Hz up to 2000Hz)
Shock	200g (11ms)
Water and dust protection	IP64 on shaft
89/336/EWG EMV-rules	EN 50081 part 2
	EN 50082 part 2

Electrical data:

Signals	square wave
Light source	LED
Operating voltage	5V ± 5%
Current	max.180mA
Scan frequency	300kHz
Output	5V Line-Driver
Current output	20mA
Output signals	2 channels A and B phase-shifted 90° electrically
	zero-pulse: 1 pulse per revolution;
	length: 90° electrically
	all signals with inversion possible

Tolerances:

	Phase angle (20°C/110°C)	Scan rate (20°C/110°C)
up to 20 kHz	± 10° / ± 30°	± 10° / ± 30°
up to 100 kHz	± 30° / ± 40°	± 30° / ± 40°

Mechanical dimensions encoder-type AMI
B100/180 (41100065-XXXXX)

Ø42 ±0.1

30°

M4/6depth
3x120°

305

75

45

6

2

0.5

$\varnothing 6 \ ^{-0.01}_{-0.02}$

Ø50 h7

Ø58 -0.1

10^{+1}

4

3

3

pin colour		signals
brown	A	
green	$\overline{A}$	
grey	B	
pink	$\overline{B}$	
red	H	
black	$\overline{H}$	
brown 0,5	5V	
white 0,5	0V	
blue	5V	sensor
white	0V	
transparent	shield/housing	